

FY 2002-2004 PERFORMANCE BASED INCENTIVE

SECTION 1 GENERAL INFORMATION

Performance Incentive Number: PBI-10 (Environmental Management)
Program Based Summary Number:
Performance Incentive Short Title: **Support Ongoing INEEL Missions**
Revision Number & Date: May 23, 2002
Maximum Available Incentive Fee: \$4950K (\$4105K Base; \$845K Stretch)
Performance Incentive Type: ☒Base ☒Stretch ☐Superstretch
Duration: ☒Annual ☒Multi-year
Fee Payment Type: ☒Completion ☒Progress ☒Provisional
DOE Technical Monitor: Joel Case, Pete Dirkmaat, Bill Leake
BBWI Technical Monitor: Larry Farrell, James Valentine
(check appropriate box)

SECTION 2 PERFORMANCE OUTCOMES

Check Appropriate Box:

- ☐ Outcome #1 Deliver science-based, engineered solutions.
☒ Outcome #2 Complete environmental cleanup responsibly.
☐ Outcome #3 Provide leadership and support to optimize investments.
☐ Outcome #4 Enhance scientific and technical talent, facilities, and equipment.

SECTION 3 PERFORMANCE MEASURES AND EXPECTATION (S)

List associated performance measures and performance expectations for FY02-04. Identify associated PBS # for each performance measures as appropriate.

Measure 1: Support Ongoing INEEL Missions

Expectation 1.1: FY02-04 Decouple the treatment of the calcine from the SBW path forward.

- FY02 Complete Calcine Characterization and Sampling plan for CSSF RCRA Permitting
- FY03 Incorporate calcine disposal requirements into characterization and sampling plan. Complete calcine sample, retrieval and characterization studies necessary to support calcine disposal and CSSF RCRA permitting.
- FY04 Complete the RCRA Part B permit application for bin set storage of calcine and permit modification request for Volume 18, Debris Treatment and Waste Storage.

Expectation 1.2: FY02-04 Complete analysis of DOE SNF to support inclusion in the repository license.

Expectation 1.3: Complete ATR receipts and Peach Bottom SNF removal from Fuel Element Cutting Facility (FECF)

- Complete 42 ATR SNF receipts at CPP-666 during the FY02 through FY04 timeframe. (SNF-103)
- Complete the removal of the full and partial Peach Bottom fuel elements from the FECF and place into interim dry storage in IFSF by September 30, 2002. (SNF-103)

Expectation 1.4: Ongoing SNF receipts and transfers

- FY02 Complete sliding saddle seismic-related modification in IFSF for receipt of NAC-LWT cask by September 30, 2002. (SNF-102)
- FY02 Domestic SNF receipts and transfers [one Oak Ridge receipt] by September 30, 2002. (SNF-102)
- FY03 Receive one foreign SNF receipt [one cask received from Japan shipment] (SNF-102).
- FY03 Complete the Oak Ridge receipts at IFSF and CPP-749 (SNF-102).

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- FY03 Complete one General Atomics receipt (SNF-102).
- FY04 Initiate and complete one Cornell receipt (SNF-102).
- FY04 Initiate and complete one FRR receipt (SNF-102) (Base) and one additional DRR or FRR receipt (Stretch)

Expectation 1.5: Improvements in managing and maintaining INEEL assets

- For FY02-04, reduce the cost of maintenance of active and inactive facilities and support functions by approximately 30% from the FY01 actual costs (estimated to be \$125M).
- By September 30, 2002, BBWI will have identified in the CMMS, the Authorization Basis and Mission Critical Equipment for each EM site area consistent with technical specifications stemming from existing or pending SARs and consistent with the Maintenance Implementation Plan for other site areas. For the period 6/01/02 through 9/30/02, BBWI will demonstrate 95% completion of preventive maintenance items scheduled for equipment that has been identified in the CMMS as Authorization Basis or Mission Critical.
- In FY03 and FY04, BBWI will complete 95% of the preventive maintenance for Authorization Basis and Mission Critical Equipment as scheduled. The requirement is that all Authorization Basis and Mission Critical Equipment is identified in the CMMS consistent with technical specifications stemming from existing or pending SARs.
- From April 1, 2002, through September 30, 2002, BBWI will complete 90% of corrective maintenance work within the time frames specified in STD-101. DOE will, on a case-by-case basis, consider specific work orders to be exempt from this requirement due to demonstrated strategic or logistic requirements.
- In FY03 and FY04, BBWI will complete 90% of corrective maintenance work within the time frames specified in STD-101. DOE will, on a case by case basis, consider specific work orders to be exempt from this requirement due to demonstrated strategic or logistic requirements.

SECTION 4 FEE SCHEDULE

Identify fee payment schedule for the PBI and the type of payments to be made (e.g., provisional, progress, final) and the basis of the payment (e.g., per canister completed, per assembly, earned value, etc.)

Measure 1: Support Ongoing INEEL Missions

Expectation 1.1:

- FY02 (Stretch) A provisional payment of \$100K is available for successfully defining and completing the calcine characterization and sample analysis plan for CSSF RCRA permitting. (\$100K)
- FY03 (Stretch) A final payment of \$125K is available for successful completion of calcine sample, retrieval and characterization studies necessary to support calcine disposal and CSSF permitting. (\$125K)
- FY04 (Stretch) A payment of \$125K is available for successful completion and submittal of a RCRA Part B permit application for bin set storage of calcine and submitting the permit modification request for Volume 18, Debris Treatment and Waste Storage. (\$125K)

Expectation 1.2:

- FY02 Fee of \$300K will be earned for successful progress towards the FY04 expectation of completing the analysis of DOE SNF to support inclusion in the repository license. Progress fee of \$75K will be earned for the successful completion of each of the five FY02 items defined in Section 5. (\$300K)
- FY03 Fee of \$300K will be earned for successful progress towards the FY04 expectation of completing the analysis of DOE SNF to support inclusion in the repository license. Progress fee of \$75K will be earned for the successful completion of each of the five FY03 items defined in Section 5. (\$300K)
- FY04 Fee of \$600K will be earned for successfully completing the analysis of DOE SNF to support inclusion in the repository license. \$150K in progress fee will be earned for completion of the validation of the Total System Performance Assessment for DOE SNF; \$150K in progress fee will be earned for completion of the

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Repository Interface Control Document; \$150K in progress fee will be earned for completion of safeguards and security analysis for DOE SNF; \$150K in Progress fee will be earned for a summary report detailing analysis performed on DOE SNF for inclusion in the repository license application. (\$600K)

Expectation 1.3: Complete ATR receipts and Peach Bottom SNF removal from Fuel Element Cutting Facility (FECF) (\$310K)

- During the timeframe of FY02-FY04, \$5K in Progress Fee will be earned for each of the 42 ATR receipts made and placed into storage at CPP-666. (\$210K)
- Complete the removal of the full and partial Peach Bottom fuel elements from the FECF and place into interim dry storage in IFSF by September 30, 2002. (SNF-103) (\$100K Final Fee)

Expectation 1.4: Ongoing SNF receipts and transfers. (This fee structure will apply to FY02-04)

Note: During FY02-04, earned fee payable for DRR and FRR receipts at IFSF is determined based on the following applicable to DRR and FRR receipts, not to include work or earned fee associated with the sliding saddle seismic-related modifications) only.

All amounts of Progress Fee and Final Fee for these fuel types are included in the percentage payable. A Contractor-caused delay after initial receipt at INTEC, in calendar days, of beginning unloading SNF due to facility lack of readiness to perform shall reduce the earned fee payable as follows:

10 days or less	100% of fee earned is payable
11-20 days	75% of fee earned is payable
21-30 days	50% of fee earned is payable
31-45 days	25% of fee earned is payable
>45 days	0% of fee earned is payable

Beginning unloading is defined as cask lid removed and readiness to remove SNF from cask.

- During FY02, \$100K in Progress Fee to be earned when the sliding saddle seismic-related modifications at IFSF needed for receipt of the NAC-LWT cask are completed. (\$100K)
- During FY 02, \$250K in Progress Fee earned when preparations are complete for receipt of Oak Ridge SNF at IFSF and \$80K in Progress Fee to be earned when the first Oak Ridge SNF receipt is unloaded and placed into storage in IFSF by September 30, 2002. (\$330K)
- During FY03, \$145K in Progress fee earned when preparations are complete for receipt at CPP-749 for the two Oak Ridge receipts. An additional \$75K in Final fee to be earned when the remaining OR receipts are unloaded and placed into storage at IFSF and CPP-749 by September 30, 2003. (\$220K)
- During FY03 (Stretch), \$100K in Stretch fee is earned when the preparations for receipt of the General Atomics cask is complete and \$25K when the cask is received and unloaded at IFSF. (\$125K) (Stretch)
- During FY03, \$100K in Progress fee is earned when preparations are complete for receipt of the FRR shipment from Japan. An additional \$50K in Final fee to be earned when the FRR shipment is unloaded and placed into storage at IFSF by September 30, 2003. (\$150K)
- During FY04, Progress fee is earned when preparations for receipt of the Cornell cask are complete (\$100K) and \$20K in Final fee is earned when the cask is received and unloaded at IFSF. (\$120K)
- During FY04 \$50K Base fee is earned when preparations are complete for one FRR receipt and \$20K is earned when shipment is unloaded and placed into storage at IFSF by September 30, 2004. (\$70K)
- During FY 04 (Stretch), \$50K in Stretch fee earned when preparations are complete for a third domestic and/or foreign SNF shipment. An additional \$20K in Stretch final fee earned when shipment is unloaded and placed into storage at IFSF by September 30, 2004. (\$70K) (Stretch)

Expectation 1.5: Improvements in managing and maintaining INEEL assets

- During FY02 a fee payment of \$100K is earned if 10% savings are achieved, a payment of \$200,000 for savings greater than 10% up to 15%; and (Stretch) \$300K for savings of 20% or greater. (\$200K Base, \$100K Stretch = \$300K)
- During FY03 a fee payment of \$100K is earned if 5% savings are achieved from a \$106.5M program base, a

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- payment of \$200K for savings greater than 5% up to 10% from a \$106.5M program base; and (Stretch) \$300K for savings of 15% or greater from a \$106.5M program base. (\$200K Base, \$100K Stretch = \$300K)
- During FY04 a fee payment of \$100K is earned if 5% savings are achieved from a \$96.5M program base, a payment of \$200K for savings greater than 5% up to 10% from a \$96.5M program base; and (Stretch) \$300,000 for savings of 15% or greater from a \$96.5M program base. (\$200K Base, \$100K Stretch = \$300K)
 - During FY02 an annual fee payment of \$135,000 is earned for achieving the performance in the fourth quarter two out of three months. During FY03-04, an annual fee payment of \$135K is earned for achieving the performance 10 out of 12 months.
 - During FY02, an annual fee payment of \$200K is earned for achieving the performance five out of six months. During FY03-04, an annual fee payment of \$200K is earned for achieving the performance 10 out of 12 months.

SECTION 5 PERFORMANCE REQUIREMENTS

PREVIOUS YEAR'S GATEWAY: *(Describe previous year's gateway (if applicable) that must be completed before fee can be paid under this performance measure. The requirements listed below are the gateway only requirements for this Performance Measure.)*

None

GENERAL REQUIREMENTS: *(Describe other performance required beyond those stated in measure or expectation such as cost constraints or requirements contained in the approved project plan.)*

None

DEFINE COMPLETION: *(Specify performance elements and describe indicators of success [quality/progress]. Include baseline documentation/data against which completion documentation should be compared.) (Stretch goals must be documented by Baseline Change Proposals including documented and verified baselines which are approved by the CO.)*

Expectation 1.1:

- FY02: Successful progress is defined as completing the Calcine Characterization and Sample Analysis plan. 9/30/02
- FY03: Successful progress is defined as completing calcine sample, retrieval and characterization studies necessary to support calcine disposal and CSSF RCRA permitting by September 30, 2003.
- FY04: Successful completion is defined as [DOE accepting for submittal to IDEQ] RCRA Part B permit application for bin set storage of calcine and submitting the permit modification request for Volume 18, Debris Treatment and Waste Storage.

Expectation 1.2: For all of Expectation 1.2, define completion means the element is accomplished when DOE-ID accepts the documentation from the NSNFP. This applies to each deliverable listed below.

- FY02: Successful progress is defined as accomplishing the following by September 30, 2002:
 - Issue Benchmark and Criticality Limit Report
 - Issue analysis report for a waste package with dual SNF canisters
 - Develop Canister Strain Argument Report.
 - Complete licensing strategy white paper for DOE SNF.
- FY03: Successful progress is defined as accomplishing the following by September 30, 2003:
 - Issue the Phase I and II Criticality Report to support DOE SNF in the license application.
 - Issue the Phase III Criticality Reports for DOE SNF
 - Issue the External Consequences AMR Report
 - Complete DBE and Source term reports for inclusion of DOE SNF in the Yucca Mountain Repository
- FY04: Successful completion includes the following analysis and documents with all analysis completed by September 30, 2004, for DOE SNF inclusion in RW's License Application, scheduled to be submitted to NRC.
 - Complete the validation of the Total System Performance Assessment calculations for DOE SNF
 - Issue the repository Interface Control Document
 - Complete safeguards and security analysis for DOE SNF
 - Issue a summary report detailing analysis performed on DOE SNF for inclusion in the repository license

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application

Expectation 1.3: Complete ATR receipts and Peach Bottom SNF removal from Fuel Element Cutting Facility (FECF)

- 42 receipts of SNF from ATR placed into storage at CPP-666 during the period of FY02 through FY04
- Complete the transfer of one full and one partial Peach Bottom fuel elements from FECF into IFSF by September 30, 2002.

Expectation 1.4: Ongoing SNF receipts and transfers

- During FY02: Complete sliding saddle seismic-related modifications for NAC-LWT cask.
- During FY03: Complete all (5) Oak Ridge receipts, complete one General Atomics receipt and complete FRR SNF receipt (one cask received from Japan).
- During FY04: Complete one Cornell receipt and one additional DRR and/or FRR receipts (i.e, SUNY-Buffalo, Sandia, other DRR, and/or FRR). Complete one additional receipt from either a DRR or a FRR country by September 30, 2004.

Expectation 1.5: Improvements in managing and maintaining INEEL assets. See section 4 for details.

COMPLETE DOCUMENTS LIST: *(List document(s) that should be submitted, data that should be available, actions to be taken by evaluator to determine actual performance to the requirements stated above.)*

Expectation 1.1:

- FY02 Submit the Calcine Characterization and Sample Analysis Plan to DOE-ID.
- FY03 Submit the calcine retrieval and characterization studies necessary to support calcine disposal and CSSF permit to DOE-ID.
- FY04 Submit the RCRA Part B permit application for bin set storage of calcine to Idaho DEQ.
- FY04 Submit the permit modification request for Volume 18, Debris Treatment and Waste Storage.

Expectation 1.2:

- Issued Benchmark and Criticality Limit Report
- Issue analysis report for a waste package with dual SNF canisters
- Develop Canister Strain Argument Report
- Complete licensing strategy white paper for DOE SNF
- Issued Phase I and II Criticality Report to support DOE SNF in the license application.
- Issued Phase III Criticality Report for DOE SNF
- Issued External Consequences AMR Report
- Completed DBE and Source term reports for inclusion of DOE SNF in the Yucca Mountain Repository
- Completed the validation of the Total System Performance Assessment calculations for DOE SNF
- Issued repository Interface Control Document
- Completed safeguards and security analysis for DOE SNF
- Issued summary report detailing analysis performed on DOE SNF in support of repository license application

Expectation 1.3: Complete ATR receipts and Peach Bottom SNF removal from Fuel Element Cutting Facility (FECF)

- Notification of completed fuel receipt and storage documentation at the end of each quarter.
- Notification of completed fuel transfer of Peach Bottom SNF from FECF into IFSF

Expectation 1.4: Ongoing SNF receipts and transfers.

During FY02:

- Safety document revisions submitted to DOE-ID, and the ECF and completed work package for sliding saddle seismic-related modifications at IFSF.

During FY03:

- Complete fuel receipt and storage documentation for the FRR shipment. (One cask received from Japan.)
- Completed fuel receipt and storage documentation for the five Oak Ridge shipments.
- Completed fuel receipt and storage documentation for the one General Atomics shipment.

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During FY04:

- Completed fuel receipt and storage documentation for the one Cornell shipment.
- Completed fuel receipt and storage documentation for a second & third DRR and/or FRR shipments [i.e., SUNY-Buffalo, Sandia National Laboratory, other DRR, and FRR country]

ASSUMPTIONS/TECHNICAL BOUNDARY CONDITIONS AND REMEDY STATED: *(List foreseeable impacts to performance, which are not covered under the Contract. If the assumption or condition proves false the remedy shall be in effect. If remedy is not possible the next step is renegotiation.)*

Expectation 1.1:

- Calcine sampling for CSSF/WCF permitting activities can be accomplished with the calcine inventory currently stored in CPP-601 D-Cell.

Expectation 1.2: Complete analysis of DOE SNF to support inclusion in the repository license

- RW will submit the repository license application to NRC by December 2004.
- YMP Licensing will be performed under NRC regulations, 10 CFR 63, Rev 0, and will use the YMP licensing strategy.

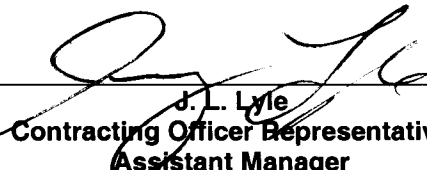
GOVERNMENT FURNISHED SERVICES/ITEMS

Expectation 1.1: HLW EIS Rod is issued which separates the treatment of SBW from calcine.


Expectation 1.2: SNF information will be required from Savannah River, Hanford and INEEL sites to support licensing. YMP will provide the final "YMP Licensing Strategy" to define the licensing process.

Expectation 1.4: All fuel receipt data necessary for modification of the existing SARs and receipt of the SNF at IFSF will be provided by the shipping site per the schedule provided in the DWP.

SECTION 6 SIGNATURES


J. L. Lyle
Contracting Officer Representative
Assistant Manager
Environmental Management


Date


S. G. Stiger
Vice President
Environmental Management Programs


Date